

SILICONE MODIFIED POLYUREA

Abstract

5 The present invention includes a novel polyol prepolymer including an aliphatic amine, aromatic amine, or a mixture of both aliphatic and aromatic amines with an epoxy functional silicone to produce the novel polyol prepolymer chain extender. In another aspect of the invention, the novel polyol prepolymer chain extender is reacted with a polyisocyanate to produce a novel silicone modified polyurea having improved adhesion, chemical resistance, UV stability, and decreased shrinkage properties.